

#4

Docket No.: PC-0044 CIP

**DECLARATION AND POWER OF ATTORNEY FOR
UNITED STATES PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

HUMAN GPCR PROTEINS

the specification of which:

 / is attached hereto.

 / X / was filed on June 28, 2001 as application Serial No. 09/895,686, and if this box contains an X / , was amended on _____.

 / was filed as Patent Cooperation Treaty international application No. _____ on _____, 2001, if this box contains an X / , was amended on under Patent Cooperation Treaty Article 19 on _____ 2001, and if this box contains an X / , was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code, §119 or §365(a)-(b) of any foreign application(s) for patent or inventor's certificate indicated below and of any Patent Cooperation Treaty international applications(s) designating at least one country other than the United States indicated below and have also identified below any foreign application(s) for patent or inventor's certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application for said subject matter the priority of which is claimed:

Country	Number	Filing Date	Priority Claimed
_____	_____	_____	// Yes // No
_____	_____	_____	// Yes // No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Application Serial No.	Filed	Status (Pending, Abandoned, Patented)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of Title 35, United States Code §112, I acknowledge my duty to disclose material information as defined in Title 37 Code of Federal Regulations, §1.56(a) which occurred between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

Application Serial No.	Filed	Status (Pending, Abandoned, Patented)
09/156,513	Sept. 17, 1998	Pending

I hereby appoint the following:

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Michael C. Cerrone	Reg. No. 39,132
Diana Hamlet-Cox	Reg. No. 33,302
Richard C. Ekstrom	Reg. No. 37,027
Barrie D. Greene	Reg. No. 46,740
Lynn E. Murry	Reg. No. 42,918
Shirley A. Recipon	Reg. No. 47,016
Susan K. Sather	Reg. No. 44,316
Michelle M. Stempien	Reg. No. 41,327
David G. Streeter	Reg. No. 43,168

respectively and individually, as my patent attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Please address all communications to:

**LEGAL DEPARTMENT
INCYTE GENOMICS, INC.
3160 PORTER DRIVE, PALO ALTO, CA 94304**

TEL: 650-855-0555 FAX: 650-849-8886 or 650-845-4166

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Signature:

Olga Bandman

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PREETI G. LAL

Signature:

Date:

, 2001

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Sole Inventor or

First Joint Inventor:

Full name:

OLGA BANDMAN

Signature:

Date:

, 2001

Citizenship

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Date: _____, 2001
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Full name: Y. TOM TANG
Signature: _____
Date: _____, 2001
Citizenship United States of America
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P.O. Address: 4230 Ranwick Court
San Jose, California 95118

Fourth Joint Inventor:

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Signature: Mariah R. Baughn
Date: September 27, 2001
Citizenship United States of America
Residence: San Leandro, California
P.O. Address: 14244 Santiago Road
San Leandro, California 94577

Table 1

SEQ ID NO:	Amino Acid Residues	Potential Phosphorylation Sites	Potential Glycosylation Sites	Signature Sequences	Identification	Analytical Methods
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2	353	S158 T255 S86 T120 S151 S243 S246 T251 T317 S325	N13 N16 N23 N58 N84	I42-V66, P78-M99, W109-I149, V159-L180, T209-L232, V254-T278, Y293-R319	Somatostatin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
3	333	T60 T218 S89 S172 T224	N8 N110 N300	Y44-L74, P62-H83, F109-R131, N143-L164, A231-G255, K278-P304	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS
4	396	S36 S187 T251 S27 T323 S389	N7	I46-P70, Y79-I100, L117-F157, R166-S187, S219-F242, L265-L289, S302-K328	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
5	403	S360 S368 S47 T318 S337 S5 T33 S123 T398	N30 N352	I57-L78, G94-E117, C122-V151, L162-L181, M198-F220, G233-L255	Metabotropic glutamate GPCR	BLOCKS, HMM, MOTIFS, PRINTS
6	807	T129 S155 S172 S201 S322 S347 S409 S662 S787 S794 S117 T166 T271 T402 T583 T587 T618 S771	N88 N110 N127 N281 N392 N424 N443 N505 N647 N785 N798	N425-T452, I475-W499, A549-L572, F636-N647, Q677-G696, H709-W730	Secretin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PRINTS

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<110> Bandman, Olga
Lal, Preeti
Tang, Y. Tom
Baughn, Mariah R.

<120> HUMAN GPCR PROTEINS

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Met	Ala	Phe	Pro	Thr	Leu	Gln	Ala	Ile	Leu	Ala	Gln	Asp	Ile	Gln
				365					370					375
Glu	Asn	Asn	Phe	Ala	Glu	Ser	Leu	Val	Met	Thr	Thr	Thr	Val	Ser
				380					385					390
His	Asn	Thr	Thr	Met	Pro	Phe	Arg	Ile	Ser	Met	Thr	Phe	Lys	Asn

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Arg Leu Ala Asn	Asn Thr Gly Gly Trp	Asp Ser Ser Gly Cys	Tyr		
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Val Glu Glu Gly	Asp Gly Asp Asn Val	Thr Cys Ile Cys Asp	His		
	440		445		450
Leu Thr Ser Phe	Ser Ile Leu Met Ser	Pro Asp Ser Pro Asp	Pro		
	455		460		465
Ser Ser Leu Leu	Gly Ile Leu Leu Asp	Ile Ile Ser Tyr Val	Gly		
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Val Gly Phe Ser	Ile Leu Ser Leu Ala	Ala Cys Leu Val Val	Glu		
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Ala Val Val Trp	Lys Ser Val Thr Lys	Asn Arg Thr Ser Tyr	Met		
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Arg His Thr Cys	Ile Val Asn Ile Ala	Ala Ser Leu Leu Val	Ala		
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Asn Thr Trp Phe	Ile Val Val Ala Ala	Ile Gln Asp Asn Arg	Tyr		
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Ile Leu Cys Lys	Thr Ala Cys Val Ala	Ala Thr Phe Phe Ile	His		
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Phe Phe Tyr Leu	Ser Val Phe Phe Trp	Met Leu Thr Leu Gly	Leu		
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Met Leu Phe Tyr	Arg Leu Val Phe Ile	Leu His Glu Thr Ser	Arg		
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Ser Thr Gln Lys	Ala Ile Ala Phe Cys	Leu Gly Tyr Gly Cys	Pro		
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Leu Ala Ile Ser	Val Ile Thr Leu Gly	Ala Thr Gln Pro Arg	Glu		
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Val Tyr Thr Arg	Lys Asn Val Cys Trp	Leu Asn Trp Glu Asp	Thr		
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Lys Ala Leu Leu	Ala Phe Ala Ile Pro	Ala Leu Ile Ile Val	Val		
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Val Asn Ile Thr	Ile Thr Ile Val Val	Ile Thr Lys Ile Leu	Arg		
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Pro Ser Ile Gly	Asp Lys Pro Cys Lys	Gln Glu Lys Ser Ser	Leu		
	665		670		675
Phe Gln Ile Ser	Lys Ser Ile Gly Val	Leu Thr Pro Leu Leu	Gly		
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Leu Thr Trp Gly	Phe Gly Leu Thr Thr	Val Phe Pro Gly Thr	Asn		
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Leu Val Phe His	Ile Ile Phe Ala Ile	Leu Asn Val Phe Gln	Gly		
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Leu Phe Ile Leu	Leu Phe Gly Cys Leu	Trp Asp Leu Lys Val	Gln		
	725		730		735
Glu Ala Leu Leu	Asn Lys Phe Ser Leu	Ser Arg Trp Ser Ser	Gln		
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His Ser Lys Ser	Thr Ser Leu Gly Ser	Ser Thr Pro Val Phe	Ser		
	755		760		765
Met Ser Ser Pro	Ile Ser Arg Arg Phe	Asn Asn Leu Phe Gly	Lys		
	770		775		780
Thr Gly Thr Tyr	Asn Val Ser Thr Pro	Glu Ala Thr Ser Ser	Ser		
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<213> Homo sapiens

<220>

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<212> DNA

<213> Homo sapiens

<220>

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<213> Homo sapiens

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 <211> 2919
 <212> DNA
 <213> Homo sapiens

<220>
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 atctcggta tcacgctggg agccaccag ccccggaag tctatacgag gaagaatgtc 1920
 tgttggtca actgggagga caccaaggcc ctgctggctt tcgccatccc agcactgatc 1980
 attgtgggtg tgaacataac catcactatt gtggtcatca ccaagatcct gaggccttc 2040
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 ggggtcctca caccactctt gggcctcact tggggttttg gtctcaccac tgtgttccca 2160
 gggaccaacc ttgtgttcca tatcatattt gccatcctca atgtcttcca gggattatc 2220
 attttactct ttggatgcct ctgggatctg aaggtacagg aagctttgct gaataagttt 2280
 tcattgtcga gatggtcttc acagcactca aagtcaacat ccctgggttc atccacacct 2340
 gtgttttcta tgagttctcc aatatcaagg agatttaaca atttgtttgg taaaacagga 2400
 acgtataatg tttccacccc agaagcaacc agctcatccc tggaaaactc atccagtgc 2460
 tcttcgttgc tcaactaaga acaggataat ccaacctacg tgacctcccg gggacagtgg 2520
 ctgtgctttt aaaaagagat gcttgcaaa caatggggaa cgtgttctcg gggcaggttt 2580
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 aataaaaaata attgttatgt ttctgtttgt tccctcccc tcccccttgt gtgataccac 2700
 atgtgtatag tatttaagt aaactcaagc cctcaaggcc caacttctct gtctatattg 2760
 taatatagaa tttcgaagag acattttcac tttttacaca ttgggcacaa agataagctt 2820
 tgattaaagt agtaagtaaa aggtaccta ggaaatactt cagtgaattc taagaaggaa 2880
 ggaaggaagg aaggagggaa agaagggagg aaaccagga 2919

<210> 13
 <211> 232
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1258981H1

<220>

<221> unsure

<222> 79, 87, 90, 149, 162, 189, 199, 202, 205, 218

<223> a, t, c, g, or other

<400> 13

tgtcaccata	cagcgggtac	aatgggcagc	tgctgaccag	tgtgtaccag	cccactgaga	60
tggccctgat	gcacaaagnt	ccgtccnaan	gagcttacga	catcatcctc	ccacggggcca	120
tcgccaacag	ccaggtgatg	ggcagtgcn	actcgaccct	gngggctgaa	gacatgtact	180
cggcccagng	ccaccaggng	gncanaccgc	cgaaagangg	caagaactct	ct	232

<210> 14

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1442823R1

<400> 14

aagagttaat	aaagcagaaa	tgtattttatt	aggcaccctt	gttcctcaca	gaggagcaag	60
atccaggcct	gagcgcttgg	gaagtctctt	gaggttgacg	gaatctccag	agaaacatag	120
gcgctgcccc	gccaccaccc	cgagaacact	atttggttgg	agtgtgaccg	ccgaggtgat	180
cctggcagga	ggctgggggt	ggctcctcga	ctccacaaac	actgaggagt	gggtggggac	240
acccatgaca	cccacccaaa	caactggcaga	gagggaggcc	cttccacatc	tggggcacat	300
gttgctgggc	ctgccagggg	gaggaggagc	ctggagagtc	ccttgcccgg	ggccagggtcc	360
tcagggccct	ccccaaatcc	gaccgcctct	cctcgccacc	gctgactcag	tcccacacgt	420
aggggtttct	aaagacctga	gagttcttgc	cgtctttcgg	cgggtgtggc	cctggtgggt	480
ctgggccgag	tacatgtctt	cagcccgcag	gtcgag			516

<210> 15

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1962119T6

<400> 15

cacagaggag	caagatccag	gcctgagcgc	ctgggaagtc	tcttgagggt	gcaggaatct	60
ccagagaaac	ataggcgctg	cccagccacc	accccgagaa	cactatttgg	ctggagtgtg	120
accgcccagg	tgatcctggc	aggaggctgg	ggttgggtcc	tcgactccac	aaacactgag	180
gagtgggttg	ggacacccat	gacacccacc	caaacactgg	cagagaggga	ggcccttcca	240
catctggggc	acatgttgct	gggcctgc				268

<210> 16

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2059242R6

<400> 16

cagtgttttg	gtgggtgtca	tggtgtgcc	caccactcc	tcagtgtttg	tggagtcgag	60
gagccaaccc	cagcctcctg	ccaggatcac	ctcgccggtc	acactccagc	caaatagtgt	120
tctcgggggtg	gtggctgggc	agcgccctatg	tttctctgga	gattcctgca	acctcaagag	180

acttcccagg cgctcaggcc tggatcttgc tcctctgtga ggaacaaggg tgcctaataa 240
atacat 246

<210> 17
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SATA01180F1

<220>
<221> unsure
<222> 50, 52, 56, 66, 233, 272, 296
<223> a, t, c, g, or other

<400> 17
gactctagag gatccccctt caccacacag gcaaacacga ggcagaagan gnccanggtc 60
cccagnaaga agaatacctg ggtccccagc aggctccgtt tcttgggtgc ctgcacaaaag 120
gggagggttg ccaccaggat gatgggtgagc acaaacgtgg tgacaatgcc cgccccagcc 180
acggcctcca ggacgatgcc ccacgccccca gagcgggtcac acaggttgta gtnacaggggg 240
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<210> 18
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARB01556F1

<220>
<221> unsure
<222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
435-436, 441, 448-449, 455, 457, 459
<223> a, t, c, g, or other

<400> 18
cctgcagggtc gactctagag gataggcctc acgtctttgc nctcaacttc ntggccccgga 60
agaaccacgg gccccggggc tgggtgannt tcaactgtggc tctgntgctg accctggtag 120
aggctcannat caatacagag tggctgatca tcaccctggg tgggggcagt ggngangggc 180
gccctcaggg caacagcagn ncaggctnng ccgtggnnct ncncgtgtggn atcgnaaanc 240
atggatttgt natagactn atctcacgtn atgntgntgn tgctgggtgc cttcntgggg 300
gcctgggnca gcnnctgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
tnntcaanaa aaccanctcn gntgccatat nggtagtgag aaacnncang tatnnntaca 420
ggcaacaagc acccnaaca ntttccannc tgggnangna cccaaag 467

<210> 19
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARA01967F1

<220>
<221> unsure
<222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
578-579, 585, 592, 605, 607, 627-628
<223> a, t, c, g, or other

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<400> 19
atccatggaa aaggccttgt tctccacgaa catgctctga cccttctgct ctttcaggat 60
ggtctcatag cccacgcccc ggggtgggga catgtccccc tggtagcttt gctctgggct 120
ggacttgggtc acctgggaga cctcggggat gacgtagaag aggacgaagg cccaggcatt 180
ggcggcgagg gcgatggcca gcgtgggggtc atccaggtg ggactgttnt gctgcttgn 240
gccgtaagta tacatgacga tccacaccac ccataatggca acggaggtgg ctgtgggtgag 300
gagcacaag accccatgct tacgccagcg cttgtagcgg ncacacaggg cgggccaggc 360
ccccaggaag gcacccagca gcagcagcat gacgtagatg agtgccaatg ncaaagtcca 420
tggtggcgat ggcaaaagg gggangggca agggccccag ggggnnacng aggccttngaa 480
atttggtaaa nncaaggtnn aaaanacaagn ttcccnnng gngnnaaaaa ttttttaann 540
cccgncnnca naaatttccc canncangan anntttanng atccngggaa ancccataaa 600
aaaantntta aaaaccctt ggggggnncc c 631

```

```

<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

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<400> 20
ggcacttttg ggagaccatg tgcaccctca tcacggccat ggatgccaat agtcagttca 60
ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttcac gaagtcccg aagccctctg tggccaccct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cag 223

```

```

<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

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<400> 21
gggtggagat tttcctttat ttgattttat tttggagagg aagggtctaga gcaaaaagat 60
gatgccaaca caccgggcac tagaatgacc cctgcacatg cagaacacac ggacactcaa 120
gctggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gctgcaaaag 180
ccccccgacc ccagctttta ttagttttta gacccccaac cacaccacc ccaggtctcc 240
ttgttttcag taagcagacc tcctagcaaa ctgggctttt actcctgtgg gctcagtgcc 300
acatccccctc aaataaacat gcacccctca gagcaaaagg gaaattgaca ggatgctgga 360
acgccgagag atgggatgct ttatttttca ttatccacca gcttgggaga aaggccacct 420
tccatcgcac cagtgaagag cgggaaagag cgatcgggac ctttcccgtc tctca 475

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```

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

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<400> 22
gtccgggact ggaacctcgc tgctgcccac tgggtcccaac gccagcaaca cctctgatgg 60
ccccgataac ctcacttcgg caggatcacc tcctcgcacg gggagcatct cctacatcga 120
catcatcatg ccttcgggtg tcggcaccat ctgcctcctg ggcatcatcg ggaactccac 180
ggcatccttc gcggtcgtga agaagtccaa gctgcactgg tgcaacaacg tccccgacat 240
cttcatcatc aacctctcgg tagtagatct cctctttctc ctgggcatgc ccttcgtgat 300
ccacaagctc atgggcaatg ggggtgtggca ctttgg 336

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<210> 23
<211> 478

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PC-0044 CIP

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3001554F6

<400> 23
gagaatgtca ccagagctgc aaaatctccc cgaccccagc ttttattagt tttaagaccc 60
ccaaccacac ccaccccagg tctccttggt ttcagtaagc agacctccta gcaaactggg 120
cttttactcc tgtgggctca gtgccacatc ccctcaaata aacatgcac cctagagca 180
aaagggagat tgacaggatg ctggaacgcc gagagatggg atgctttatt ttccattatc 240
caccagcttg ggagaaaggc caccttccat cgcaccagtg agaggcggga aagagcgatc 300
gggccctttc ccgtctctca ggccttgctg aacatggccc tggctgctca ctccagccct 360
gcctgacttt aaacaaaccc agtcagtacc cttccacctc ttgccttggg aagaagacat 420
ttgagagctc acagatatag tgcaaccggg tatccaaacc aacatgttct cttgctca 478

<210> 24
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAC00257R1

<220>
<221> unsure
<222> 14
<223> a, t, c, g, or other

<400> 24
tccccaaagt gccncacccc attgcccatt agctgggtgga tcatgaaggg catgcccagg 60
agaaagagga gatctactac cgagagggtg atgatgaaga tgtcggggac gttgttgac 120
cagtgcagct tggacttctt cagcaccgag aagatgaccg tggagtcccc gatgatgccc 180
aggaggcaga tgggtgccga caccgaaggc atgatgatgt tgatgtagga gatgctcccc 240
gtgctgaggag gtgatcctgc cgaagtgagg ttatcgggg 279

<210> 25
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00250R1

<400> 25
ggcacttttg ggagaccatg tgcaccctca tcacggccat ggatgccaat agtcagttca 60
ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagtcccg aagccctctg tgccacacct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc accctgtgt ggctgtatgc cagactcatc cccttcccag 240
gaggtgcagt gggctgcggc atacgctgc ccaacccaga cactgacctc tactggttca 300
ccctgtacca gtttttctcg gcctttgccc tgcccttagt ggtcatcaca gccgcatacg 360
tgaggatcct gcagcgcagt acgtcctcag tggcccccgc ctcccagcgc agcatccggc 420
tgccgacaaa gagggtgacc cgcacagcca tcgcatctg tctgggtctc tttgtgtgct 480
gggcacccta ctatgtgcta cagctgacct agttgtcca 519

<210> 26
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00523R1

<220>
 <221> unsure
 <222> 113, 130-132, 134, 482, 530
 <223> a, t, c, g, or other

<400> 26
 ggcgggaaag agcgatcggg ccctttcccg tctctcaggc cttgtgcaac atggccctgg 60
 ctgctcactc cagccctgcc tgactttaaa caaaccagc cagtaccctt ccncctcttg 120
 ccttggggaan nngncatttg agagctcaca gatatagtgc aaccggttat ccaaaccaac 180
 atgttctctt gctcagcttc tgttctatcc aaaggtctca tcctgctccc ccaaggggat 240
 ttctgatatc tgaaaacccc aaacctgact ccaggcctcc ccagcaacgt gtgagcccca 300
 tggaatgtat ttatttcatt gcaacaaccc ctcacaaccc ggcttctctg catttcccg 360
 gcggtcttgg gtttttctca gcatctctcc cggtggcgtg ttgtggtgcc ctgacttgga 420
 ggtgtgcagg gtggcagggg aagtatcagg tgcttggctt tctggcctct ctcgtcagcc 480
 gnctgagcgt tgctgacagc gcgagtggcc ctgggtgcag gcttaacgan agctg 535

<210> 27
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2214673H1

<400> 27
 cctcaccaga gctctgggtg ccacctctgt cccgccatgc tgctcaccga cagtggccag 60
 ggccacacag accaagaggc ttggggccaca aagtaaaggg tcgcggacct cgccggccgc 120
 catgtggagc tgcagctggt tcaacggcac agggctgggt gaggagctgc ctgcctgcca 180
 ggacctgcag ctggggctgt cactgttgtc gctgctgggc ctggtggtgg gcgtgccagt 240
 gggcctgtgc tacaa 255

<210> 28
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3073644H1

<400> 28
 cagcaagctc caacggctga tgaaaaagct gccctgcggg ggccggcact gctccccgga 60
 ccacatgggg gtgcagcagg tgctggcgta ggcggcccag ccctcctggg gagacgtgac 120
 tctggtggac gcagagcact tagttaccct ggacgctccc cacatccttc cagaaggaga 180
 cgagctgctg gaagacaagc aggaggggtg tttttcttga agtttctttt ttcccacaaa 240
 tgccactctt gggccaaggc tgtggtcccc gtggctggca tctggcttga gtctccccga 300
 ggcctgtgcg tctcccaaac acgcagctca aggtccacat ccgcaaaagc ctctctgcct 360
 tca 363

<210> 29
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3573501F6

<220>
 <221> unsure
 <222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216,
 246, 250, 252
 <223> a, t, c, g, or other

<400> 29

ID: 9895685 - 062301

PC-0044 CIP

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cgcacagctg  ngcaggctcct  caccagagnt  ctggtggcca  cctctgtccn  ggcatgctgc  60
tcaccgacag  tngccanggc  ccacagcacc  aanaggcttg  ggccacaaag  taaagggctg  120
cggannctcg  ncggccgcna  tgtngagctg  cagctngttc  aacggcacag  ggctgntgga  180
gganctgcct  gcctgccagg  acctgcagtg  gggntntcac  tgttgctcgt  gctgggcctg  240
gtggtnggcn  tnccagtggg  cctgtgctac  aacgccctgc  t              281
```

<210> 30
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4618526H1

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<400> 30
gcagggagga  cacgcccctg  gaccgggaca  cgggcccggc  ggagccctcg  gcacacaggc  60
tgctgggtgc  caccgtgtgc  acgcagtttg  ggctctggac  gccacactat  ctgatcctgc  120
tggggcacac  ggccatcatc  tcgcgagggg  agcccgtgga  cgcacactac  ctggggctac  180
tgcactttgt  gaaggatttc  tccaaactcc  tggccttctc  cagcagcttt  gtgacacc    238
```

<210> 31
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4857037H1

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<400> 31
ttttccaaa  ctcttggcct  tctccagcag  ctttgtgaca  ccacttctct  accgctacat  60
gaaccagagc  ttcccagca  agctccaacg  gctgatgaaa  aagctgccct  gcggggaccg  120
gcactgctcc  ccggaccaca  tgggggtgca  gcaggtgctg  gcgtaggcgg  cccagccctc  180
ctggggagac  gtgactctgg  tggacgcaga  gcacttagtt  accctggacg  ctccccacat  240
ccttccagaa  ggagacgag              259
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<210> 32
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5025086H1

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<400> 32
cttcgtgtgg  ggtggcgcg  tgctgaccag  cttctcctcg  ctgctcttct  acatctgcag  60
ccatgtgtcc  accgcgcgc  tagagtgcgc  caagatgcag  aacgcagaag  ctgccgacgc  120
cacgctgggt  ttcacggct  acgtgggtgc  agcactggcc  accctctacg  cgctgggtgt  180
acttccccgc  gtccgcagg  aggacacgcc  cctggaccgg  gacacggggc  ggctggagcc  240
ctcggcacac  aggctgctgg  tggccaccgt  gtgca              275
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<210> 33
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1482004T1

<220>
<221> unsure
<222> 3, 97, 99
<223> a, t, c, g, or other

09095696 062801

PC-0044 CIP

<400> 33
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tcatactgaa aaaaacctca gctgatgtta tctgtgngng ctggggaggg tgtcagggac 120
atttgggtggc tgaggagagc gcgtcactgc tattgaatag ctccatttaa caccagccat 180
gtctccgcgt ctcaggcact tctgtgaaat gttctcagaa ccctgtggtg actgcggcac 240
accgggcagg ccttgctagc acacgcgcgc cactggcagg gcccggccac cctggctggt 300
gccattcttt cgtagggttt tgttcatttt actatttgtc atttttctag gaaacatctg 360
tttttgtaaa acaacaagg gggaatcaag tattttaacc acaaagtata aatactggct 420
ctaagctttc atcacttcat tgacaaactg aatgctgagg aggctgaagg cgaggaggct 480
tttgcggtatg tggaccttga gctgcgtggt tgggagacgc acaggcctcg gggagactca 540
agccagatgc cagccacggg gct 563

<210> 34
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 153210R6

<220>
<221> unsure
<222> 14, 156, 277
<223> a, t, c, g, or other

<400> 34
gtcatttgca tgcnacctta tatcaggctt gagaacaagc tgtatgccat gtcaatcatt 60
tctctctgct gtgccgactg cttaatggga atatatattat tcgtgatcgg aggctttgac 120
ctaaagtttc gtggagaata caataagcat gcgcantgtg gatggagagt actcattgtc 180
agcttgtagg atctttggcc attctgtcca cagaagtatc agttttactg ttaacatttc 240
tgacattgga aaaatacatc tgcattgtct atccttntag atgtgtgaga cctggaaaat 300
gcagaacaat tacagttctg attctcattt ggattactgg ttttatagtg gtttcattcc 360
attgagcaat aaggaatttt tcaaaaacta ctatggcacc aatggagtat gcttcctctt 420
tcattcagaa gatacagaaa gtattggagc ccagatttat tcagtg 466

<210> 35
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822H1

<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

<400> 35
ctttgacctt aagtttcgtg gagaatacaa taagcatgcg cantgtggat ggagagtact 60
cattgtcagc ttgtaggac tttggccatt ctgtccacag aagtatcagt tttactgtta 120
acatttctga cattggaaaa atacatctgc attgtctatc cttttagatg tgtgagacct 180
ggaaaatgca gaacaattac agttctgatt ctcatttggg ttactggttt 230

<210> 36
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3558664T6

<220>

09895636-052801

<221> unsure
 <222> 152-193, 334, 447
 <223> a, t, c, g, or other

<400> 36
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 tgtatagtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
 ccaggactat attgcaatgc tatgcacata gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
 nnnnnnnnnnn nnnngttactg aagtagattt ctcttaattt cttatgcaaa atgtctacta 240
 atatatatac attattgata taattacttc cctttgtaag agcattagtc atttttatatt 300
 ttcctcatgt ccttgtaaaa tatttatctt agcnattatt ataaattaat tttgtggtat 360
 tcatttcata ccagtaaatc cctcatgaag cccccccaca gtattctctg cgaagaaatg 420
 aatttcagag tcagtcatga atagganttg agtctcgttg attgaggaat cagtgacatt 480
 tca 483

<210> 37
 <211> 612
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2488822X308B1

<220>
 <221> unsure
 <222> 561
 <223> a, t, c, g, or other

<400> 37
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 ttccaccacag atgaatgatg gagcatatgt tttctgacct ttgctgtcca tagattttct 120
 ttgtctgtag ttataccaaa accgatgaat catttcttta aatggctctg tggtcagagt 180
 atagagaatt gggttcaaag cactgttaat gggcagaata aaaatcacta cccaagaggt 240
 tatggtagct ggtatttcta cctgaagcag tgaaagaaat ttcactacaa aaatgggtat 300
 ccagcataat gcacagtaa atactataaa gaaaaaacgt ttggcaagga tcatctcttt 360
 tttaacttga ttccgtattt cagttgctgt tatggcactt tgatgaacac tataaaacat 420
 gcttccatag gaaaaaactg tgatgataaa tgccggccaaa ttaataccaa gaaaaattgc 480
 cactgaataa atctggggct ccaatacttt ctgtatcttc tgaatgaaga gggaagcata 540
 ctccatttgt gccatagtag ntttgaaaaa ttccttattg ctcaatggaa tgaaagccac 600
 ttttaaacca gt 612

<210> 38
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2488822X310D1

<220>
 <221> unsure
 <222> 311, 359, 446, 454, 509, 556
 <223> a, t, c, g, or other

<400> 38
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 aaaccatgta taatacatgt tcctttgatt gattattaat ttgatatttt tagcagccta 120
 gaagggattg aaatttcaaa tatccaacaa aggatgttta gacctttat gaatctctct 180
 cacatatatt ttaagaattt ccagtactgt gggatgacac cacatgttcg cagctgtaaa 240
 ccaaacactg atggaatttc atctctagag aatctcttgg caagcattat tcagagagta 300
 tttgtctggg ntgtatctgc agttacctgc tttggaaaca tttttgtcat ttgcatgcna 360
 ccttatatac ggtctgagaa caagctgtat gccatgtcaa tcatttctct ctgctgtgcc 420
 gactgcttaa tggggatata tttatnctg atcngaggct ttgacctaaa gtttcgtgga 480
 gaatacaata agcatgcgcc tgtgggatng agagtactca ttgtcagctt gtaggatctt 540

tggccattcc tgtecnacagg ag

562

<210> 39

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201H1

<400> 39

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accatctgct ctgtccgccg ctccctctgg ggcgtcctct ttgcgctctg cttctcctgc 60
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tggcagctgg tgggcctggc gctgtgcctg atgctgggtc aagtcacat cgctgtggag 180
tggctgggtc tcaccgtgct gcgtgacaca aggccagcct gcgcctacga gcccatggac 240
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<210> 40

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3141184H1

<400> 40

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cttccacgcc atccctgaga tccactgcac ctttctgccg gccctgcagg agaacacgcc 60
caactacttc gacacgtcgc agcccaggat gcgggagacg gccttcgagg aggacgtgca 120
gctgccgcgg gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
ccgaacagca ggatttccca acggcagcct gggaaaaaaga cccagtggca gcttggggaa 240
aagaccagc gctccgttta gaag

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<210> 41

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 384797R6

<220>

<221> unsure

<222> 433, 497

<223> a, t, c, g, or other

<400> 41

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cgtgcagctg ccgcgggcct atatggagaa caaggccttc tccatggatg aacacaatgc 60
agctctccga acagcaggat ttcccaacgg cagcttggga aaaagaccca gtggcagctt 120
ggggaaaaga cccagcgtc cgtttagaag caacgtgtat cagccaactg agatggccgt 180
cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacacctttg 240
gtgaaagact ttaagttcca gagaatcaga atttctctta ccgatttgcc tccctggctg 300
tgtctttctt gagggagaaa tcggtaacag ttgccgaacc aggccgcctc acagccagga 360
aatttggaaa tcctagccaa ggggatttctg tgtaaatgtg aacactgacg aactgaaaag 420
ctaacaccga ctncgcgcc tcccttgcca cacacacaga cacgtaatac agaccaacct 480
caatcccga attcgaagg gggcc

```

<210> 42

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

09895686-062801

<223> Incyte ID No: 2705201X325F1

<220>

<221> unsure

<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596

<223> a, t, c, g, or other

<400> 42

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cacaangcca gctnccgctt acgagcccat ggactttgtg atggccctca tctacgacat 180
ggtactgctt tgggtcaccc tggggctggc cctcttcact ctgtgcggca anttnaagag 240
gtggaagctt aacggggctt cctcctcacc acagccttcc tctctgtgct catctgggtg 300
gcctggatga ccatgtacnt tttcggnant ttnaacctgc anagggggan cntttnaann 360
acccacttg gctannaant ttgncggnaa nngntgggtt ttnannatct tccatgcctc 420
cttganacca atgcacnttt tgccaacct tanggagaac annccaaact acttngaann 480
tcccncccca tgttngggan anggccttcn caggaggaat tttatcttnc gcgggggctaa 540
nttgnaana aggcttncnc antgnttnaa nnaattnagc ttncggaann cagggnnttc 600
caaacg                                     606

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<210> 43

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1262948X325F1

<220>

<221> unsure

<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647

<223> a, t, c, g, or other

<400> 43

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gagaaagatg agagctcac aggtgctcac ctctcctctg ctcttcgtga tcacctcggt 120
ggcctctgaa aacgccagca catcccgagg ctgtgggctg gacctcctcc ctacgtacgt 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtg gaggcgggtg cgggggcggg 240
cgccctgatc aactgctcc tgatgctcat cctcctgggt cggctgccct tcaaggagaa 300
ggagaagaan ggcctgtgn gctccacttt ctgttcctcc tggggaacct ggggcctctt 360
tggggctgac gtttccttca tcatccagga agacgagacc aatctgctnc tgttccggcn 420
gcttctctct ggggggttct cttttnggct cttgctttct tctgacctnc ttangcaagg 480
caatngcncc nttcngaagc ttggttccgg cantggcang gggccccccn ggnttgtcaa 540
acttnttggg cttgncgctt nttccctnaa agcttgggtc aaataatnat ncnntttgaa 600
nttgcttggt ntnaccctt tttntttaaa aaaaggcnaa ctttgcncct aaaaa 655

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<210> 44

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3036563H1

<400> 44

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tccatcttga gcttggcagc ctgtctagtt gtggaagctg tgggtgtgaa atcggtgacc 180
aagaatcgga cttcttatat gcgccac                                     207

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T08290"98956850

<210> 45
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4457161H1

<400> 45
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 cctatcactg cataatttaga tataagaatt catacagtat tgcaacccaaa gacgtcattg 120
 ttcacccgct gccttctaaag ctgaacatca tgggttgatcc tttggaagct actgtttcat 180
 gcagtgggtc ccatcacatc aagtgtctgca tagaggagga tggagactac aaagttactt 240
 tccatatggg ttcctcatcc ctcc 264

<210> 46
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH00352F1

<400> 46
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 atccccgtaat aggtgtcgga gagccgggga aagtcattcca gaagctatgc cggttctcaa 180
 acgttcccag cagccctgag agtcccattg gcgggaccat cacttacaaa tgtgtaggct 240
 cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
 tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
 atctttctat tagcataggc caagcggaac atgaaatcag ctcttctc 408

<210> 47
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH02656F1

<400> 47
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 atccccgtaat aggtgtcgga gagccgggga aagtcattcca gaagctatgc cggttctcaa 180
 acgttcccag cagccctgag agtcccattg gcgggaccat cacttacaaa tgtgtaggct 240
 cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
 tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
 atctttctat tagcataggc aaagcggaac atgaaatcag ctcttctcct ggg 413

<210> 48
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH01730F1

<220>
 <221> unsure
 <222> 341, 393
 <223> a, t, c, g, or other

09895686 "062301

<400> 48
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 ggtcattgac aagagctacc tagaaaactt gcagtcggat tcgtctattg tcaccatggc 180
 tttcccaact ctccaagcca tccttgtctc ggatatccag gaaaataact ttgcagagag 240
 cttagtgatg acaaccactg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
 ttttaagaac aatagccctt caggcggcga aacgaagtgt ngtcttctgg aacttcaggc 360
 ttgccaacaa cacagggggg tgggacagca gtnggtgcta tgttgaagaa ggtgatggg 420
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 tcccagatc 489

<210> 49
 <211> 87
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH03622F1

<400> 49
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 aaggggtaga acagcattag ggccaat 87

<210> 50
 <211> 116
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH01163F1

<400> 50
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<210> 51
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH02669F1

<400> 51
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 cctgtttttac caaacaattt gttaaattct cttgatattg gagaactcat agaaaacaca 180
 ggtgtggatg aacccaggga tgctgacttt gagtgtctgt aagaccatct cgacaatgaa 240
 aacttattca gcaaagcttc ctgtaccttc agatcccaga ggcattccaaa gagtaaaatg 300
 aataatccct ggaagacatt gaggatggca aatatgatat ggaacacaag gttggtccct 360
 gggaacacag tggtagagcc aaaaccccaa gtgaggccca agagtgggtg gaggacccca 420
 atgctcttgc tgatctgaaa caggctgtct ttctcctgct tgcattggct gtctccaatg 480
 gaaggcctca ggatcttggt gatgacacaa tagtgatggt tatgttcacc acacaatgat 540
 cagtgtctgg atggcaaa 558

<210> 52
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH00249F1

<400> 52
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 tggggaacgt gttctcgggg caggtttccg ggagcagatg ccaaaaagac tttttcatag 180
 agaaggggct ttcttttgta aagacagaat aaaaataatt gttatgtttc tgtttggttc 240
 ctccccctcc cccttggtg ataccacatg tgtatagtat ttaagtgaac ctcaagccct 300
 caaggcccaa cttctctgtc tatatgtaat atagatttcc gagaggcatt ttcacctttt 360
 ac 362

<210> 53
 <211> 615
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702778992H2

<400> 53
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 catcgccctc gccgccaatg cctgggcctt tgtgctcttc tatgtcatcc ctgaggtctc 180
 ccaggtgacc aaggccagcc cagagcaaag ttaccagggg gacatgtacc ccacccgggg 240
 cgtaggctac gagaccatcc tgaaagagca gaaggggccag agtatgtttg tggagaacia 300
 ggcattttcc atggatgagc cagcctcagc taagagaccg gtgtcaccat acagtgggta 360
 caacgggcag ctgctgacca gcgtgctcca gcccaccgag atggccctga tgcacaaagg 420
 cccgtccgaa ggagcttacg acgtcatcct cccacgagcc accgccaaca gccaggtgat 480
 gggcagtgcc aactccaccc tgagggccga agacatgggt gcggcccaga gccaccaggc 540
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 ctgagtcggc ggcag 615

<210> 54
 <211> 686
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701938522F6

<400> 54
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 gcctggactt ttgtcttctt ctatgtcatc cctgaggtct cccaagtgac caaaccagc 180
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 cagcctcagc aaagagaccg gtgtgcctt acagtggcta caatggtcag ctgctgacca 360
 gcgtgtacca gcccaccgag atggccctga tgcacaaagg cccgtctgaa ggtgcgtacg 420
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 ggcagctgaa gacatgtaca tggtcagag ccaccaggtg gcacgccaac gaaagacggc 540
 aagatctctc aggatcagtc cccgaaaaat aaaacaagat ggtagatgcc ctcttccctg 600
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 atgtgtgtgc tgctggcggc ttctc 686

<210> 55
 <211> 198
 <212> DNA
 <213> Macaca fascicularis

<220>
 <221> misc_feature
 <223> Incyte ID No: 700712581H1

<400> 55
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 gggcttgggc tcttgacaa ggtggcaggt gctggaggct gccgcagtct gcgtgggtgg 120

PC-0044 CIP

aggggagctc agcttggttg tgggagccgg cgaccgtcac tggctggatg gacctggaag 180
cctcgctgct gccactg 198

<210> 56
<211> 271
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701250242H1

<400> 56
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gtgggtggatc tgcttttccct gctgggcatg cctttcatga tccaccagct catgggtaat 120
ggtgtctggc actttgggga aaccatgtgc accctcatca cagccatgga cgccaacagt 180
cagttcacca gcacctacat cctgactgct atggccattg accgctactt ggccaccgtc 240
catcccactct cctccaccaa gttccggaag c 271

<210> 57
<211> 304
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701899983H1

<400> 57
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cctgtgggcy ctctccttca tcagtatcac ccctgtgtgg ctctacgcca ggctcattcc 120
cttcccaggg ggtgctgtgg gctgtggcat ccgcctgcca aaccgggaca ctgacctcta 180
ctggttcaact ctgtaccagt ttttccctggc ctttgccctt ccgtttgtgg tcattaccgc 240
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catc 304

<210> 58
<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701028051H1

<400> 58
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gagtgtctcc tacatcacat cattatgctt tccgtgtctg gtaccatctg tctcctgggc 180
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agcaacgt 248

<210> 59
<211> 497
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 075474_Mm.1

<400> 59
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ctgagccttg actactacat cgagcgtgcc ctgccaccac ctacatggcc agtgtgtaca 120
acacccggca cgtgtgtggc ttcgtctggg gaggggcygt gctcaccagc ttctcctccc 180
tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

PC-0044 CIP

acacggaggc agccgatgct atccttgtgc tcatcggcta cgtggtgcc a ggtctggctg 300
tggtgtatgc cctggcactc atctcgagaa tcgggaagga agacacaccc ctggaccagg 360
acaccagcag gctggacccc tcggtgcaca ggctgctggt ggccaccgtg tgcactcagt 420
ttggcctctg gacaccttac tacttgagcc tggggacaca gtgctgacgt cacgggggag 480
gaccgtggag gggcatt 497

<210> 60
<211> 266
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700819903H1

<400> 60
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ggatgcagaa cacggaggca gccgacgcca tccttgtgct cattggctac gtggtgccag 180
gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
tggaccagga caccagcagg ctggac 266

<210> 61
<211> 294
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701657796H1

<400> 61
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cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctgggca tcctacaggt 180
tgctaaggac ctggcgaagt tcttggcctt ctcaagcagt tctgtgacgc cgctgctcta 240
ccgttacatc aacaaagcct tccccagcaa gctccggcgc ctggtgaaga agat 294

<210> 62
<211> 432
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702466096T1

<400> 62
aatgggaatc cagcacaatt gctatcggtt gaacacaata aagaaaaagc gtttggcgag 60
gatcatctcc ttcttcacct gcttctgtat ttcggtggct gttatggtgc tttgatgaac 120
actgtaaaac atgcttccat aggagaacac aatgatgata aacgccacca ggtttaatac 180
ctgttttagac catgaagaat attagtagtg tatgctagca ttctcttaag acaaacatgg 240
cttagatgtc actattaaag atcacagagc ccataaagtgt gtattcattt attcgtttat 300
ttactctgtg acaaggtctt attgtagagt tcagatgagc cttcaacttg actaggttagc 360
ctaggctgga caccaacatg cagtctctct gcctcagatt acaaatgtgt accagatctt 420
cctgatctcc at 432

<210> 63
<211> 727
<212> DNA
<213> Macaca fascicularis

<220>
<221> misc_feature
<223> Incyte ID No: 703021534H1

<400> 63
gagggccagc cccaggggtga ccaccagcag taccatgtcg tagatgaggg ccatcacaaa 60
gtccatgggc tcataggcgc aggcgggctt cgtgtcgcgc agcacgggtga gcaccagcca 120
ctccacagcg atgatgactt gtaccagcat caggcacagc gccaggccca ccagctgcca 180
gcccgcgggg cccgtgccgt gccgcaccag cctccgcacg cgccacgcct ggctcagcag 240
gcaggagaaag cagagcgcaa agaggacgcc ccagaggaag cggcggacgg agcagatggt 300
ctcgtcctcc tggatgatga aggcgaatgt cagcccgaag aggcccaggg tccccaggag 360
gaagagaaag tggaggccca cggggctctt cttctccttc tccttgatga agggcagccg 420
caccaggagg atgagcatca ggagcagtgt gatcaggggcg cccgccccgg ccaacggctt 480
caacaagaag tgccccagat ggcgctccagg tgcacatagg acacgttact gagggacggc 540
aggtccagcg cgcaccctcg ggacgtgctg gcgttttcag agggcaccga ggtgatcaca 600
aagagcagga ggaaggtgag cacctgggtga gctctcatct ttctctctga tgccacgaac 660
attcgacccc tgcgggccgc agcgccaacg ctccagctgg gcctcggccc gagtcacatc 720
tctgcag 727

<210> 64
<211> 461
<212> DNA
<213> *Canis familiaris*

<220>
<221> misc_feature
<223> Incyte ID No: 703543565J1

<400> 64
cagagggaca ggagggcagt cgggtgttagc ttttcggttc agcagtgttc acatttacac 60
gaaatcccct tgtgtaggat ttctagatct cccggctgtg aggcagcctt gttcggctac 120
tggtactgat ttctccctca agaaagacac agccaggga taaaatcggg aacgagagat 180
tcttacttct ctggaactta acacagtctt tcaccagagg tgtcttccag tgctaactag 240
gcggagcagt tgggatagtc cctccatcga gcacaacggc catctcagct gggctgacta 300
gacacttgct ctctaaacgg agcgctcggg ctgtttccca agctgccatt gcgacaatcc 360
cgccgttcgg agagctgcat agtgttcac ccatcgagaag gcttcgcttc tccatgtagg 420
tccgtggcag ctgcacgtcc tctcacaaac gcatgtctcc c 461

<210> 65
<211> 278
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> Incyte ID No: 076599_Mm.1

<220>
<221> unsure
<222> 249
<223> a, t, c, g, or other

<400> 65
cgcgggcgcg ctgcagagat gtgacttggg cccagggcca gcaggagcgt cggcgctgcg 60
gggacgcgag ggtcgaatgt tcttggtgtt agagagaaag atgagaaccc atcaagtgtt 120
tcccttgccc ctgctcctgg tgattgcctc cgtggcttca gagaacgcca gcacgtcccg 180
gggctgtgga ctggaccttc ttctcagta cgtgtccctg tgcgacctgg acgccatctg 240
gggcatccnt ggtggagggc agtggccggg gcggggggc 278

<210> 66
<211> 561
<212> DNA
<213> *Rattus norvegicus*

<220>
<221> misc_feature
<223> Incyte ID No: 701749639H1

<400> 66
gaggcggctg tgtgcctcca ctctctcttc ctgctgggga ccctgggcct ctttggcctg 60

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acgttttgcctt tcatcatccg gatggacgag acaatctgct ccatccgacg cttcctctgg 120
ggtgtcctct tgcactctg cttttcctgc ctgctgagcc aggcgtggcg ggtacggagg 180
ctggtgcgcc agggcacgag cccggccagc tggcagctgg tgagcctggc actgtgcctg 240
atgctggtgc aggtcatcat cgccactgag tggctggtgc tgactgtgct acgtgacacg 300
aagccggcct gcgcctacga gcccatggat tttgtgatgg cgctcatcta cgacatgggtg 360
ctgctggcta tcaccctagc gcagtccctc ttacacactgt gtggcaagtt caagcgggtgg 420
aaggtgaacg gagccttcat cctcatcact accttcctct ctgtgctcat ctgggtgatc 480
tggatgacca tgtacctctt cggcaactcg ttaattaagc gggcagatgc ctggagcgaa 540
cctaccttgg ccatcacgct g

```

<210> 67
 <211> 499
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 702147192H1

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<400> 67
gcgctgcggg gacgcgaggg tcgagtgttc ctggtgtcag agagaaagat gagaaccac 60
caagtgtctt ccttgcccct gctcctgggt attgcctctg tggcttcgga gaacgccagc 120
acgtcccggg gctgtggggt ggaccttctt cctcagtacg tgcctctgtg cgacctggac 180
gccatttggg gaatcgtggt ggaggcagtg gccggggcag gggccctgat cacactgctt 240
ctgatgtcta ttctcctggt gagactgccc ttcatcaagg acaaggaaag gaggcggcct 300
gtgtgcctcc acttcctctt cctgctgggg accctgggcc tctttggcct gacgtttgct 360
ttcatcatcc ggatggacga gacaatctgc tccatccgac gcttcctctg ggggtgcctc 420
ttcgcaactct gcttttctct cctgctgagc caggcgtggc ggggtacggag gctggtgcgc 480
cagggcacga gcccgcca
499

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<210> 68
 <211> 565
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 703557532J1

<220>
 <221> unsure
 <222> 24
 <223> a, t, c, g, or other

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<400> 68
gctgttcaga tcagcaagag catnggggtc ctaacaccac tctggggctc acctgggggtt 60
tggctcttggc actgtgttcc aaggaagcaa gctgtgttcc atattatatt tacactcctc 120
aatgcctttc agggattatt catttgctct tggatgcctc tgggatcaga aggtacagga 180
agccttacta aagaagtttt cactgtcaag atggctctct cagcactcaa agtcaacatc 240
cctaggttca tctacaccag tattttctat gagttctcca atatcaagaa gatttaacaa 300
tttattggaa aaacaggaac gtacaagttt ccaccccaga aacaaccagc tcatccctgg 360
aaaacacatc cagtgtttac tccttgctga actaagaaca ggaaaatcta cccacgtgac 420
ttcttaaagg acagcggata tgctctgaaa aaaaaaaaaa atcctttcaa agccatgggg 480
taaaacggtt tcctccgagg cttcccggga gcaaagtctg aagagacctt tcggcttttag 540
gggaaaagaa gcttcctttg gtaaa
565

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<210> 69
 <211> 468
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702766139H1

<400> 69

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ccccccagta ggactccaga gatgtttggt acttttgaga aatggcagag tttctggatg 60
acttttccag gctccccaac acctattacg ggatctcggc acatgatgtt ctttccagga 120
accacattaa gcttcataga tgggctccgg actgaattat tagcagcatt aggtaaagtg 180
acaaaatatg tccagctttt ttagacacca ggaaactgat gtccttgcca tgaacttgta 240
tttgacgacac acttgcttgc cattaacttc ttttctgca ggaaaggata aggaatccac 300
ttggaaagtc actctgtagt atctcagtc tctgcaatgc agcatctgaa gtgataggga 360
acccttgtag ggaactgtag cactccagag gatcaaccat gatgtttggc tctagaggca 420
gtgggtaaac ggtcacatct ttcattacga cacatgtatg aatacttg 468

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<210> 70
 <211> 263
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701085654H2

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<400> 70
ctattccaga tcagcaagag tatcgggggt ctcacaccac tcttgggggt cacttgggggt 60
ttcgggtcttg ccacagtgat ccagggaagc aatgctgtgt tccacatcat atttactact 120
ctcaatgcct tccagggggt cttcattttg ctctttgggt gcctctggga tcagaagggtg 180
caggaagctt tgctgcataa gttttcattg tcaagggtgt cttctcaaca ctcaaagtca 240
acatccatag gttcgtcaac acc 263

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<210> 71
 <211> 246
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701077530H1

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<400> 71
cctcattatc tcctctatca cagtgggggt tacgcagcta caggaagtct acatgatgaa 60
gaacgcgtgt tgggtcaact gggaggacac cagagcactg ctggcttttg ccatccccgc 120
gttgattatt gtggtggtaa atgtgagcat cacagttgtg gtcacacca agatcctgag 180
gccctccatt ggggacaagc caggcaagca agagaagagc agcctattcc acatcagcaa 240
gagtat 246

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<210> 72
 <211> 515
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 702147631H1

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<400> 72
gttgtggaag ccatggtgtg gaaatcagtg accaagaacc gaacttccta tatgcgccac 60
atctgcatcg tcaacattgc cttttctcta ggctatggct gtccactcat tatctcatcc 120
atcacagtgg ggggttacaca gccacaggaa gtttacatga ggaagaatgc atgttggtc 180
aactgggagg acaccagagc actgctgggt tttgctatcc cagcgttgat tattgtgggtg 240
gtgaacgtga gcatcacagt tgtggtcatc accaagatcc taaggccctc cgtcggagac 300
aagccaggca agcaggaaaa gagcagccta tccagatca gcaagagcat tggagtcctc 360
acgccactct tggggctcac ttggggtttt ggtctggcca cagtgatcca ggggagcaat 420
gctgtgttcc acatcatatt tactctcctc aatgcctttc aggggctctt cattttgctc 480
tttggtgcc tctgggatca gaaggtacag gaagc 515

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<210> 73
 <211> 539
 <212> DNA
 <213> Rattus norvegicus

<400> 74						
tctgtcttta	caaaagaaag	catcttctct	attcaaagag	tctcttcagc	atctgtctcc	60
agaagtctgc	agagagaaca	ctttacccat	agatttggat	atgggtccct	tttcttggca	120
ggggccctat	ttctgagagc	tctgtgaat	ttggcattat	ctgggtcctag	ttgagcaatg	180
agtaagcact	agaggaattt	tccacggatg	agctggttgt	ctctgggggtg	gaaacgttat	240
atgttccatc	aggaggatga	actgccactg	ataacaaggt	gtccatcatt	gccttggggg	300
acctttgggg	ctgctgtttt	accaaaaaga	ttattaaatc	ttcgggatat	cggagaactc	360
atcgaaaaca	caggtgttg	tgaacctaa	gatgttgact	ttgagtgttg	agaagaccac	420
cttgacaatg	aaaacttatg	cagcaaagct	tcctgtacct	tctgatccca	gaggcagcca	480
aagagcaaaa	tgaagagccc	ctgaaaggca	ttgaggagag	taaatatgat	gtggaacaca	540
gcattgctcc	cctgaatcac	tgtgaccaga	c			571